

Chief, Multimedia Permits and Compliance Branch
Caribbean Environmental Protection Division
U.S. Environmental Protection Agency, Region 2
City View Plaza II, Suite 7000
48 RD. 165 Km. 1.2
Guaynabo, Puerto Rico 00968-8069

RE: Administrative Order on Consent Docket Number CWA-02-2015-3102 –
Compliance with AOC Section VII, ¶68

Dear Jose:

On March 18, 2015 AES Puerto Rico LP (“AES-PR”) and the United States Environmental Protection Agency (“EPA”) entered into the above referenced Administrative Order on Consent (“AOC”), under which AES-PR is obligated to comply with certain requirements (AOC Section VII, Ordered Provisions). All capitalized terms in this letter shall have the meaning as defined in the AOC.

Under AOC Section VII ¶68, Upon the Effective Date of this Order and for a period of one year, AES-PR shall conduct benchmark monitoring and analyze samples according to Part 6.1.3 (measurable storm event), Part 6.1.4 (sample type), Part 6.1.5 (adverse weather condition), Part 6.1.7 (monitoring periods), Part 6.2.1.1 (applicability of benchmark monitoring), Part 6.2.1.2 (benchmark monitoring schedule), Part 8.O.7 (sector-specific benchmark for steam electric power generating facilities) and Part 8.Q.6 (sector-specific for water transportation) of the MSGP. Also, AES-PR shall:

- a) monitor at least once at the permanent sampling points 001, 002, and 003 (SP-001, SP-002, and SP-003, respectively) in each of the following 3-month intervals: January 1 – March 31; April 1 – June 30; July 1 – September 30; and October 1 – December 31;
- b) analyze the samples for total aluminum, total iron, total lead and total zinc;
- c) document monitoring activities and laboratory reports for each sampling point; and
- d) prepare MDMR forms within thirty (30) days of receiving the laboratory results. Respondent shall use the MDMR available at the EPA’s web site at <http://water.epa.gov/polwaste/npdes/stormwater/>.

In compliance with the new AOC requirement, AES-PR hereby submits copies of the required MDMR forms as attachments to this letter, as well as evidence showing the forms were filed online using EPA’s eNOI system. We submit these forms and proof of previous filing with EPA’s eNOI system for your acceptance and closure of the requirement set forth in Section VII, ¶68 of the AOC.

Please note that AES-PR is submitting these forms two days after signing the AOC, well in advance of the required deadline. We respectfully ask EPA to advise AES-PR promptly, should the agency have any concerns with this submission. Should AES-PR not receive any timely comments from EPA, we will reasonably consider that EPA has agreed that AES-PR has satisfied this requirement of AOC Section VII, ¶68 in full. Should EPA require additional time to review and provide comments back to AES-PR, that review time is of course entirely beyond the control of AES-PR and should be added to the required time frame for AES-PR to comply with this requirement.

Regards,




Manuel Mata
President AES Puerto Rico
Attachments

**Administrative Order on Consent
AES Puerto Rico Coal Fired Power Plant
Docket Number CWA-02-2015-3102
NPDES Tracking Number PRU020663**

Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Manuel Mata
President AES Puerto Rico

3/20/15

Date

**Administrative Order on Consent
AES Puerto Rico Coal Fired Power Plant
Docket Number CWA-02-2015-3102
NPDES Tracking Number PRU020663**

Attachment 1

Administrative Order on Consent Docket Number CWA-02-2015-3102

Compliance with AOC Section VII, ¶168

Required Reporting for Q1 2015 under Section B-12 of our MSGP

Industrial Discharge Monitoring Report (MDMR)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
MSGP INDUSTRIAL DISCHARGE MONITORING REPORT (MDMR)

Form Approved.
OMB No. 2040-0004

Reason(s) for Submission (Check all that apply):

- ☒ Submitting monitoring data (Fill in all Sections).
☐ Reporting no discharge for all outfalls for this monitoring period (Fill in Sections A, B, C.1, D, and F).
☐ Reporting that your site status has changed to inactive and unstaffed (Fill in Sections A, B, F and include date of status change in comment field in Section E.4).
☐ Reporting that your site status has changed to active (Fill in all Sections and include date of status change in comment field in Section E.4).
☐ Reporting that no further pollutant reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the MSGP (Fill in Sections A, B and F).

A. Permit Tracking Number: **PRR05BL65**

Note: Read instructions before completing this Form.

B. Facility Information

1. Facility Name: **AES PUERTO RICO**

2. Facility Location:

a. Street: **PR-03 KM 142.0 BO. JOBOS**

b. City: **GUAYAMA**

c. State: **PR** d. Zip Code: **00785**

3. Additional Facility Information (Optional):

Contact Name: **MANUEL MATA** Email: **manuel.mata@aes.com**

Phone: **787-866-8117** Ext. **2233**

4. MDMR Preparer (Complete if MDMR was prepared by someone other than the person signing the certification in Section F)

Prepared by: **HECTOR M AVILA**

Organization: **AES PUERTO RICO**

Email: **hector.avila@aes.com**

Phone: **787-866-8117** Ext. **2266**

C. Discharge Information

1. Identify monitoring period: ☒ Check here if proposing alternative monitoring periods due to irregular stormwater runoff. Identify alternative monitoring schedule and indicate for which alternative monitoring period you are reporting monitoring data:

☐ Quarter 1 (April 1 – June 30) ☒ Quarter 1: From **01 / 01** To **03 / 31**

☐ Quarter 2 (July 1 – September 30) ☐ Quarter 2: From **04 / 01** To **06 / 30**

☐ Quarter 3 (October 1 – December 31) ☐ Quarter 3: From **07 / 01** To **09 / 30**

☐ Quarter 4 (January 1 – March 31) ☐ Quarter 4: From **10 / 01** To **12 / 31**

2. Are you required to monitor for cadmium, copper, chromium, lead, nickel, silver, or zinc? ☒ Yes (Complete line item 2.a.) ☐ No (Skip to Section D)

2.a. What is the hardness level of the receiving water? **6800** mg/L

D. Outfall Information

1. How many outfall(s) are identified in your SWPPP? **03** List name of outfall(s) required to be monitored in table below.

2. Do any of your outfalls discharge substantially identical effluents? ☐ YES ☒ NO

2.a. If yes, for each monitored outfall, indicate outfall names that are substantially identical in table below.

3.A. Monitored Outfall Name*	3.B. Substantially Identical Outfalls [List name(s) of outfall(s) substantially identical to outfall in 3.A. (if applicable)]	3.C. No Discharge?
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

*Reference attachment if additional space needed to complete the table.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
MSGP INDUSTRIAL DISCHARGE MONITORING REPORT (MDMR)

Form Approved. OMB No. 2040-0004

E. Monitoring Information

Note: Make additional copies of this form as necessary.

1. Permit Tracking Number: **PRR05BL65**

2. Nature of Discharge: ☒ Rainfall (Complete line items 2.a., 2.b., & 2.c.) ☐ Snowmelt

2.a. Duration of the rainfall event (hours): **01** 2.b. Rainfall amount (inches): **0.03** 2.c. Time since previous measurable storm event (days): **003**

3.a. Outfall Name	3.b. Monitoring Type (QBM, ELG, S/T, I, O)*	3.c. Parameter	3.d. Quality or Concentration	3.e. Units	3.f. Results Description	3.g. Collection Date	3.h. Exceedance due to natural background pollutant levels	3.i. No further pollutant reductions achievable?
002	QBM	Aluminum	0.0947	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
002	QBM	Iron	0.272	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
002	QBM	Lead	0.004	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
002	QBM	Zinc	0.006	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
001	QBM	Aluminum	0.568	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
001	QBM	Iron	0.344	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
001	QBM	Lead	0.002	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
001	QBM	Zinc	0.124	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
003	QBM	Aluminum	0.912	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
003	QBM	Iron	0.396	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
003	QBM	Lead	0.007	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>
003	QBM	Zinc	0.009	mg/L		2/19/15	<input type="checkbox"/>	<input type="checkbox"/>

* (QBM) - Quarterly benchmark monitoring; (ELG) - Annual effluent limitations guidelines monitoring; (S/T) - State- or Tribal-specific monitoring; (I) - Impaired waters monitoring; (O) - Other monitoring as required by EPA

4. Comment and/or Explanation of Any Violations (Reference all attachments here)

F. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Hector M. Avila

Typed or Printed Name/Title of Principal Executive
Officer or Authorized Agent

Email of Principal Executive Officer or Authorized Agent:

h e c t o r . a v i l a @ a e s . c o m

Signature of Principal Executive Officer or Authorized Agent

Date

3/9/15

Instructions for Completing the MSGP Industrial Discharge Monitoring Report (MDMR)

Who Must Submit A Discharge Monitoring Report to EPA?

Facilities covered under the Multi-Sector General Permit (MSGP or permit) that are required to monitor pursuant to Parts 6.2, 6.3, and 8 of the permit must submit the MSGP Discharge Monitoring Report (MDMR) consistent with the reporting requirements specified in Part 7.1 of the permit.

Where to File the MDMR Form

Monitoring data collected pursuant to Parts 6.2, 6.3, and 8 of the permit must be submitted electronically via EPA's Electronic Notice of Intent System (eNOI), which can be found at www.epa.gov/npdes/enoi. Filing electronically will allow permittees to easily submit the results of monitoring data to EPA. If you cannot access eNOI, monitoring results must be reported on the paper MDMR form and sent to one of the following addresses:

Via U.S. mail:

U.S. Environmental Protection Agency
Office of Water, Water Permits Division
Mail Code 4203M, ATTN: MSGP Reports
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

Via Overnight/Express Delivery:

U.S. Environmental Protection Agency
Office of Water, Water Permits Division
Room 7420, ATTN: MSGP Reports
1201 Constitution Avenue, NW
Washington, D.C. 20004
Phone number: 202-564-9545

Completing the MDMR Form

To complete this form, type or print in uppercase letters in the appropriate areas only. Be sure that you complete all applicable questions. Photocopy your MDMR form for your records before you send the completed original form to the appropriate address above. Use ink when you sign and mail the original document – EPA will not accept photocopies. You may also use this paper form as a checklist for the information you will need when submitting a MDMR electronically via EPA's eNOI system.

Reasons for Submission

Indicate your reason(s) for submitting this MDMR by checking all boxes that apply. The reasons for submission are defined as follows:

- **Submitting monitoring data:** For each storm sampled, submit one MDMR form with data for all outfalls sampled. Select this reason even if you only have monitoring data for some of your outfalls (i.e., some outfalls did not discharge). If you select this reason you are required to complete all Sections of the form.
- **Reporting no discharge for all outfalls for this monitoring period:** Indicates that there were no discharges from all outfalls during this monitoring period. If you select this reason you are only required to complete Sections A, B, C.1, D, and F.
- **Reporting that your site status has changed to inactive and unstaffed:** Indicates that your facility is currently inactive and unstaffed (See Part 6.2.1.3 of the permit for more information). If you select this reason you are only required to complete Sections A, B, and F and include date of status change in the comment field in Section E.4.
- **Reporting that you site status has changed from inactive to active:** Indicates that your facility is currently active (See Part 6.2.1.3 of the permit for more information). If you select this reason you are required to complete all Sections of the form and include date of status change in the comment field in Section E.4.
- **Reporting that no further reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the permit:** Indicates that your facility has determined that no further pollutant reductions are technologically and economically practicable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent limitations in Parts 2 of the permit (See Part 6.2.1.2 of the permit for more information). If you select this reason you are required to complete Sections A, B and F. However, if you can make this finding for some outfalls and pollutants, but not for others, you cannot select this reason; you will instead be able to identify which outfalls and which pollutants you can make this finding for in Section E.

Section A. Permit Tracking Number

Enter the National Pollutant Discharge Elimination System (NPDES) tracking number assigned by EPA's Stormwater Notice Processing Center to the facility. If you do not know the tracking number, you can find the tracking number assigned to your facility on EPA's Notice of Intent (NOI) Search website (www.epa.gov/npdes/noisearch).

Section B. Facility Information

1. Enter the facility's official or legal name. Unless the name of your facility has changed, please use the same name provided on your NOI. You can use EPA's NOI Search website (www.epa.gov/npdes/noisearch) to view your NOI.
- 2.a-d. Enter the street address, including city, state, and zip code of the actual physical location of the facility. Do not use a P.O. Box.
3. (Optional) Identify the name, telephone number, and email address of the person who will serve as a contact for EPA on issues related to monitoring at your facility. This person should be able to answer questions related to stormwater discharges and monitoring or have immediate access to individuals with that knowledge. This person does not have to be the facility operator, but should have intimate knowledge of monitoring activities at the facility.
4. If the form was prepared by someone other than the person who is signing the certification statement in Section F (for example, if the MDMR was prepared by a member of the facility's stormwater pollution prevention team or a consultant for the certifier's signature), include the name, organization, phone number and email address of the MDMR preparer.

Section C. Discharge Information

1. Indicate the appropriate monitoring period (Quarter 1, 2, 3, or 4) covered by the MDMR. "Alternative" monitoring periods can apply to facilities located in arid and semi-arid climates, or in areas subject to snow or prolonged freezing. To use alternative monitoring periods, you must provide a revised monitoring schedule here in the first monitoring report submitted and indicate for which alternative monitoring period you are reporting monitoring data. If using alternative monitoring periods, identify the first day of the monitoring period through the last day of the monitoring period for each of the four periods. The dates should be displayed as month (Mo) / day (Day). See Parts 6.1.6 and 6.1.7 of the permit for more information.
2. If you are submitting benchmark monitoring data, identify if your facility is required to collect benchmark samples for one or more hardness-dependent metals (i.e., cadmium, copper, lead, nickel, silver, and zinc). If you select "yes" to this question you must also complete Question 2.a. and if you select "no" to this question you may skip to Section D.
- 2.a. If you selected "yes" for Question 2 under Section C, then you are required to submit to EPA with your first benchmark report a hardness level, established consistent with the procedures in Appendix J of the permit, which is representative of your receiving water. If your outfalls discharge to more than one receiving water, as reported in your NOI form, you should report hardness for the receiving water with the lowest hardness values. Hardness values must be reported in milligrams per liter (mg/L).

Section D. Outfall Information

1. Enter the total number of outfalls identified in your stormwater pollution prevention plan (SWPPP). Outfalls are locations where stormwater exits the facility, including pipes, ditches, swales, and other structures used to remove stormwater from the facility.
2. Indicate if your facility has two or more outfalls that you believe discharge substantially identical effluents (i.e., stormwater), based on the similarities of the general industrial activities and control measures, exposed materials that may significantly contribute pollutants to stormwater, and runoff coefficients of their drainage areas. See Parts 5.1.5.2 and 6.1.1 of the permit for more information on substantially identical outfalls.
- 2.a. If you selected "yes" for Question 2 under Section D, then you must list the outfall name(s) in Column 3.B. that you expect to be substantially identical to the corresponding outfall in Column 3.A.
- 3.A. **Monitored Outfall Name:** List name(s) of outfall(s) you are required to monitor in Column 3.A.
- 3.B. **Substantially Identical Outfalls:** List name(s) of outfall(s) substantially identical to "Monitored Outfall" in Column 3.A. (if applicable).
- 3.C. **No Discharge:** Check box if you are reporting "No Discharge" for the monitored outfall for the reporting period identified in Section C.1.

Example:

3.A Monitored Outfall Name	3.B. Substantially Identical Outfall	3.C. No Discharge
Outfall A	Outfall B; Outfall C	<input type="checkbox"/>
Outfall D		<input checked="" type="checkbox"/>

Reference attachment if additional space is needed to complete the Table Section D.

Section E. Monitoring Information

1. Enter the NPDES tracking number assigned by EPA's Stormwater Notice Processing Center to the facility reported in Section A.
2. For the reported monitoring event indicate whether the discharge was from a rainfall or snowmelt event. If you select "rainfall" then indicate the duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event in line items 2.a-c. For both rainfall and snowmelt monitoring, you must identify the date of collection for the monitoring event in column 3.g. of the table. If the discharge occurs during a period of both rainfall and snowmelt, check both the rainfall and snowmelt boxes and report the appropriate rainfall information in item 2.a-c. To report multiple monitoring events in the same reporting period, copy Page 2 of this Form and enter each monitoring event separately with data for all outfalls sampled.

For each pollutant monitored at an outfall, you must complete one row in the Table as follows:

- 3.a. **Outfall Name:** Provide the outfall name for which you monitored (e.g., Outfall 1, Outfall 2, Outfall 3).
- 3.b. **Monitoring Type:** Provide the type of monitoring using the specified codes, in parentheses, below:
 - (QBM) – Quarterly benchmark monitoring
 - (ELG) – Annual effluent limitations guidelines monitoring;
 - (S/T) – State- or Tribal-specific monitoring;
 - (I) – Impaired waters monitoring; or
 - (O) – Other monitoring as required by EPA.
- 3.c. **Parameter(s):** Enter each "Parameter" (or "pollutant") monitored. For QBM and ELG monitoring, use the same parameter name as in Part 8 of the permit.
- 3.d. **Quality or Concentration:** Enter sample measurement value for each parameter analyzed and required to be reported. Enter "ND" (i.e., not detected) for any sample results below the method detection limit or "BQL" (i.e., below quantitation limit) for sample results above the detection limit but below the quantitation limit.
- 3.e. **Units:** Enter the units for sample measurement values (i.e., "mg/L" for milligrams per liter) for each parameter analyzed and required to be reported. For monitoring results reported as ND or BQL this space will be left blank and the units will be reported in Column 3.f.
- 3.f. **Results Description:** This section must be completed for any monitoring results reported as ND or BQL in the "Quality or Concentration" column. For ND, report the laboratory detection level and units in this column. For BQL, report the laboratory quantitation limit and units in this column.
- 3.g. **Collection Date:** Identify the sampling date for each parameter monitoring result reported on this form.
- 3.h. **Exceedance due to natural background pollutant levels:** Check box if following the first 4 quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than 4 quarters of data) you have determined that the exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background for that outfall and any substantially identical outfalls. See Part 6.2.4.2 of the permit for more information. Attach supporting rationale for your determination to the submitted MDMR and reference attachment in Section E.4.
- 3.i. **No further pollutant reductions achievable:** Check box if after collection of 4 quarterly samples (or sooner if the exceedance is triggered by less than 4 quarters of data), the average of the 4 monitoring values for any parameter exceeds the benchmark and you have made the determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based

effluent limits or are necessary to meet the water-quality-based effluent limitations in Parts 2 of the permit (See Part 6.2.1. of the permit for more information) for that outfall and any substantially identical outfalls. Attach supporting rationale for your determination to the submitted MDMR and reference attachment in Section E.4.

4. Where violations of the permit requirements are reported, include a brief explanation to describe the cause and corrective actions taken, and reference each violation by date. Also, this section should include any additional comments such as are required when changing site status from inactive and unstaffed to active or vice versa. Attach additional pages if you need more space.

Attach additional copies of Section E as necessary to address all outfalls and parameters.

Section F. Certification

Enter "Name/Title of Principal Executive Officer or Authorized Agent" with "Signature of Principal Executive Officer or Authorized Agent," "Date" form was signed and email of the "Principal Executive Officer or Authorized Agent." If you submit multiple pages of Section E monitoring data, each page must be appropriately signed and certified as described below.

Certification statement and signature (see Section B.11 in Appendix B of the permit for more information). Federal statutes provide for severe penalties for submitting false information on this reporting form. Federal regulations require this form to be signed by one of the following individuals, or a duly authorized representative of that person, as follows:

For a corporation: by a responsible corporate officer, which means:

- (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or
- (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or
For a municipal, State, Federal, or other public facility: by either a principal executive or ranking elected official.

Paperwork Reduction Act Notice

Public reporting burden for this certification is estimated to average 7.25 hours per response plus an additional 2 hours for respondents required to gather hardness data, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, Office of Environmental Information Services, Collection Services Division (2823), USEPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460. Include the OMB control number of this form on any correspondence. Do not send the completed MDMR form to this address.



BECKTON ENVIRONMENTAL
LABORATORIES, INC.



REPORT OF ANALYSIS

ATTENTION: Mr. Héctor Ávila
COMPANY: AES Puerto Rico - Guayama

DATE: February 27, 2015

CONTRACT: AES - Guayama

LAB. SAMPLE ID: BEL-1500639
SAMPLE COLLECTED BY: Client (H. Ávila)
DATE RECEIVED: 02/19/15

SAMPLE DATE: 02/19/15
TIME: 6:30AM

DESCRIPTION: SW - 001
LAB. FILE ID: 1500639
MATRIX: Water

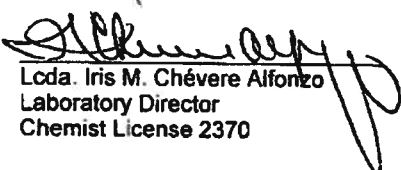
PARAMETER	EPA METHOD	SAMPLE TYPE	UNITS	BEL-1500639 RESULT	METHOD DETECTION LIMIT	ANALYST	DATE ANALYZED
TSS	SM 2540 D*	Grab	mg/L	<4.00	4.00	WV	02/24/15
Aluminum	200.7(ICAP)	Grab	mg/L	0.568	0.005	BTR	02/24/15
Iron	200.7(ICAP)	Grab	mg/L	0.344	0.010	BTR	02/24/15
Lead	200.7(ICAP)	Grab	mg/L	0.002	0.001	BTR	02/24/15
Zinc	200.7(ICAP)	Grab	mg/L	0.124	0.001	BTR	02/24/15

TSS-Total Suspended Solids

*Standard Methods for the Examination of Water and Waste Water, 19th Edition, 1995.

Method Detection Limit (MDL)-The minimum concentration of a substance that can be measured and reported with 99% confidence that the value is above zero.

Certification and release of the data contained in the Report of Analysis has been authorized by the Laboratory Manager or the Manager's Designee. Sample results related only to the sample submitted.


Lda. Iris M. Chévere Alfonzo
Laboratory Director
Chemist License 2370



Attachment: Chain of Custody Records (1)

PAGE 1 OF 1

THE NELAC CERTIFIED ANALYSES MEET ALL REQUIREMENTS OF NELAC STANDARDS.
REFER OUR SERVICE DEPARTMENT FOR THE CURRENT LIST OF CERTIFIED ANALYSES.
CERTIFIED BY THE STATE OF FLORIDA DEPARTMENT OF HEALTH AND REHABILITATION SERVICES FOR ENVIRONMENTAL TESTING
• CERTIFICATION NUMBER E87556 •
192 VILLA STREET • PONCE, PR 00730-4875 • TEL. (787) 841-7373 • FAX (787) 841-7313

CHAIN OF CUSTODY RECORD

PROJECT NO.	COMPANY <i>AES Guayama</i>	SAMPLER <i>H. Arilla</i>
SAMPLE LOCATION/CLIENT ID <i>SW - 001</i>	TIME <i>6:30 AM</i>	CONTROL NO.
SAMPLE DATE <i>2-19-15</i>	BEL. NO. <i>1500639</i>	<i>180221</i>

1. General Environmental:	PC	VSS	PC
Acidity ()	—	Alkalinity ()	—
Ammonia as N ()	—	Bicarbonate ()	—
BOD-5 ()	—	Bromide ()	—
Chloride ()	—	Chlorine Res. ()	—
COD ()	—	Color (ADMI) ()	—
Conductivity μ mhos/cm ()	—	Color (Pt-Co) ()	—
Dissolved Oxygen ()	—	Cyanide ()	—
Hardness ()	—	Fluoride ()	—
Moisture % ()	—	Iodide ()	—
Nitrite ()	—	Nitrate ()	—
Oil+Grease ()	—	Nitrate + Nitrite ()	—
Phenol ()	—	pH, S.U. ()	—
Phosphorus, Total ()	—	Phosphate, Ortho ()	—
Sett Solids mg/L ()	—	Sett. Solids mL/L ()	—
Sulfate ()	—	Solids, Total ()	—
Sulfite ()	—	Sulfide ()	—
TDS ()	—	Surfactant ()	—
Temperature, °C ()	—	TSS ()	<input checked="" type="checkbox"/>
TOC ()	—	TKN ()	<input checked="" type="checkbox"/>
Asbestos ()	—	Turbidity ()	—
TVS ()	—	Carbonate ()	—
Total Nitrogen ()	—		—
2. Metals:			
Aluminum (Al) ()	<input checked="" type="checkbox"/> <i>13</i>	Cadmium (Cd) ()	—
Chromium (Cr) ()	—	Copper (Cu) ()	—
Iron (Fe) ()	<input checked="" type="checkbox"/> <i>13</i>	Lead (Pb) ()	<input checked="" type="checkbox"/> <i>13</i>
Manganese (Mn) ()	—	Mercury (Hg) ()	—
Nickel (Ni) ()	—	Selenium (Se) ()	—
Silver (Ag) ()	—	Tin (Sn) ()	—
Zinc (Zn) ()	<input checked="" type="checkbox"/> <i>13</i>	Arsenic (As) ()	—
Barium (Ba) ()	—	Boron (B) ()	—
Antimony (Sb) ()	—	Beryllium (Be) ()	—
Bismuth (Bi) ()	—	Calcium (Ca) ()	—
Chromium, VI (CrVI) ()	—	Cobalt (Co) ()	—
Magnesium (Mg) ()	—	Molybdenum (Mo) ()	—
Potassium (K) ()	—	Silicon (Si) ()	—
Sodium (Na) ()	—	Strontium (Sr) ()	—
Thallium (Tl) ()	—	Titanium (Ti) ()	—
Vanadium (V) ()	—	Lithium (Li) ()	—
3. RCRA/Hazardous wastes			
Ignitability (Flash Pt.) ()	—	Corrosivity ()	—
Reactivity (CN & S) ()	—	TCLP ()	—
RCRA Metals ()	—	Organics-Pest/Herb ()	—
Organics-BNA ()	—	Organics-VOA ()	—
TOX ()	—		—
4. Specific Organics			
Volatiles ()	—	Phenols GC ()	—
Pesticides/PCB's ()	—	Semi-Volatiles (BNA) ()	—
Herbicides ()	—	PCB's Only ()	—
BTEX ()	—	TPH 418.1 ()	—
TTO & Dioxin ()	—	TTO ()	—
	—	TPH 8015 ()	—
	—	Lindane ()	—
5. Microbiology			
Fecal Coliform ()	—	Total Coliform ()	—

Comments:

Sampling Witness: _____
Date/Time: _____
Relinquished by: _____
Date/Time: *19 Feb 15 1:10 pm*
Received by: *[Signature]*
Date/Time: *2-19-15 1:10 PM*
Relinquished by: *[Signature]*
Date/Time: *2-19-15 3:05 pm*
Received by: *[Signature]*
Date/Time: *2-19-15 3:05 pm*
Relinquished by: _____

Date/Time: _____
Received by: _____
Date/Time: _____

Matrix

air () water ☒ sludge ()
liquid () soil ☒ solid ()
oil () mixed () other ()

Specify: _____

Preservative Codes = PC

- | | |
|---|----------------------------|
| 1. Cool, <6°C | 6. Sodium Hydroxide (NaOH) |
| 2. Sulfuric Acid (H ₂ SO ₄) pH<2 | 7. Zinc Acetate |
| 3. Nitric Acid (HNO ₃), pH<2 | 8. Ascorbic Acid |
| 4. Hydrochloric acid (HCl) | 9. FAS |
| 5. Sodium Thiosulfate | 10. Other |

Sample type legend:

grab samples x
composite samples xx

Turnaround time: Sampling Equipment:

1 day () Automatic Sampler ()
2 days () Sample Pick Up ()
3 days ()
5 days ()

Note: normal turnaround time is ten (10) working days;
additional charges apply for rush orders.

Original



BECKTON ENVIRONMENTAL
LABORATORIES, INC.



REPORT OF ANALYSIS

ATTENTION: Mr. Héctor Ávila
COMPANY: AES Puerto Rico - Guayama

DATE: February 27, 2015

CONTRACT: AES - Guayama

LAB. SAMPLE ID: BEL-1500640
SAMPLE COLLECTED BY: Client (H. Ávila)
DATE RECEIVED: 02/19/15

SAMPLE DATE: 02/19/15
TIME: 6:35AM

DESCRIPTION: SW - 002
LAB. FILE ID: 1500640
MATRIX: Water

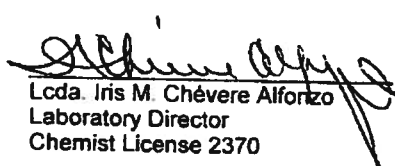
PARAMETER	EPA METHOD	SAMPLE TYPE	UNITS	BEL-1500640 RESULT	METHOD DETECTION LIMIT	ANALYST	DATE ANALYZED
TSS	SM 2540 D*	Grab	mg/L	6.00	4.00	WV	02/24/15
Aluminum	200.7(ICAP)	Grab	mg/L	0.947	0.005	BTR	02/24/15
Iron	200.7(ICAP)	Grab	mg/L	0.272	0.010	BTR	02/24/15
Lead	200.7(ICAP)	Grab	mg/L	0.004	0.001	BTR	02/24/15
Zinc	200.7(ICAP)	Grab	mg/L	0.006	0.001	BTR	02/24/15

TSS-Total Suspended Solids

*Standard Methods for the Examination of Water and Waste Water, 19th Edition, 1995.

Method Detection Limit (MDL)-The minimum concentration of a substance that can be measured and reported with 99% confidence that the value is above zero.

Certification and release of the data contained in the Report of Analysis has been authorized by the Laboratory Manager or the Manager's Designee. Sample results related only to the sample submitted.


Lcda. Iris M. Chévere Alforzo
Laboratory Director
Chemist License 2370



Attachment: Chain of Custody Records (1)

PAGE 1 OF 1

THE NELAC CERTIFIED ANALYSES MEET ALL REQUIREMENTS OF NELAC STANDARDS.
REFER OUR SERVICE DEPARTMENT FOR THE CURRENT LIST OF CERTIFIED ANALYSES.
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• CERTIFICATION NUMBER E87556 •
192 VILLA STREET • PONCE, PR 00730-4875 • TEL. (787) 841-7373 • FAX (787) 841-7313

BECKTON ENVIRONMENTAL LABORATORIES

192 Villa Street • Ponce, P.R. 00730-4875

Tel. 787-841-7373 • Fax 787-841-7313

REVISION 2009

CHAIN OF CUSTODY RECORD

PROJECT NO.	COMPANY AES Guayama	SAMPLER H. Avila
SAMPLE LOCATION/CLIENT ID	SW-002	TIME 6:35 AM
SAMPLE DATE	2-19-15	CONTROL NO. 180803
		BEL. NO. 1500640

1. General Environmental PC VSS PC

Acidity () ☐ Alkalinity () ☐

Ammonia as N () ☐ Bicarbonate () ☐

BOD-5 () ☐ Bromide () ☐

Chloride () ☐ Chlorine, Res. () ☐

COD () ☐ Color (ADMI) () ☐

Conductivity μ mhos/cm () ☐ Color (Pt-Co) () ☐

Dissolved Oxygen () ☐ Cyanide () ☐

Hardness () ☐ Fluoride () ☐

Moisture % () ☐ Iodide () ☐

Nitrite () ☐ Nitrate () ☐

Oil & Grease () ☐ Nitrate + Nitrite () ☐

Phenol () ☐ pH, S.L. () ☐

Phosphorus, Total () ☐ Phosphate, Ortho () ☐

Sett Solids mg/L () ☐ Sett. Solids mL/L () ☐

Sulfate () ☐ Solids, Total () ☐

Sulfide () ☐ Sulfide () ☐

TDS () ☐ Surfactant () ☐

Temperature, °C () ☐ TSS () ☒

TOC () ☐ TKN () ☐

Asbestos () ☐ Turbidity () ☐

TVS () ☐ Carbonate () ☐

Total Nitrogen () ☐

2. Metals:

Aluminum (Al) () ☒ **1.3**

Chromium (Cr) () ☐

Iron (Fe) () ☒ **1.3**

Manganese (Mn) () ☐

Nickel (Ni) () ☐

Silver (Ag) () ☐

Zinc (Zn) () ☒ **1.2**

Barium (Ba) () ☐

Antimony (Sb) () ☐

Bismuth (Bi) () ☐

Chromium, VI (CrVI) () ☐

Magnesium (Mg) () ☐

Potassium (K) () ☐

Sodium (Na) () ☐

Thallium (Tl) () ☐

Vanadium (V) () ☐

Cadmium (Cd) () ☐

Copper (Cu) () ☐

Lead (Pb) () ☒ **1.3**

Mercury (Hg) () ☐

Selenium (Se) () ☐

Tin (Sn) () ☐

Arsenic (As) () ☐

Boron (B) () ☐

Beryllium (Be) () ☐

Calcium (Ca) () ☐

Cobalt (Co) () ☐

Molybdenum (Mo) () ☐

Silicon (Si) () ☐

Strontium (Sr) () ☐

Titanium (Ti) () ☐

Lithium (Li) () ☐

3. RCRA/Hazardous wastes

Ignitability (Flash Pt.) () ☐

Reactivity (CN & S) () ☐

RCRA Metals () ☐

Organics-BNA () ☐

TOX () ☐

Corrosivity () ☐

TCLP () ☐

Organics-Pest/Herb () ☐

Organics-VOA () ☐

4. Specific Organics

Volatiles () ☐

Pesticides/PCR's () ☐

Herbicides () ☐

BTEX () ☐

TTO & Dioxin () ☐

Phenols GC () ☐

Semi-Volatiles (BNA) () ☐

PCB's Only () ☐

TPH 418.1 () ☐

TTO () ☐

TPH 8015 () ☐

Lindane () ☐

5. Microbiology

Fecal Coliform () ☐

Total Coliform () ☐

Comments: _____

Sampling Witness: _____

Date/Time: _____

Relinquished by: _____

Date/Time: **19 Feb 15 1:50 pm**

Received by: **[Signature]**

Date/Time: **2-19-15 1:10 pm**

Relinquished by: **[Signature]**

Date/Time: **2-19-15 3:05 pm**

Received by: **[Signature]**

Date/Time: **2-19-15 3:05 pm**

Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Matrix

air () water (X) sludge ()

liquid () soil () solid ()

oil () mixed () other ()

Specify: _____

Preservative Codes = PC

- | | |
|---|----------------------------|
| 1. Cool, <6°C | 6. Sodium Hydroxide (NaOH) |
| 2. Sulfuric Acid (H ₂ SO ₄) pH<2 | 7. Zinc Acetate |
| 3. Nitric Acid (HNO ₃), pH<2 | 8. Ascorbic Acid |
| 4. Hydrochloric acid (HCl) | 9. FAS |
| 5. Sodium Thiosulfate | 10. Other |

Sample type legend:

grab samples x

composite samples xx

Turnaround time: Sampling Equipment:

1 day () Automatic Sampler ()

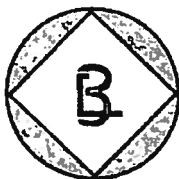
2 days () Sample Pick Up ()

3 days ()

5 days ()

Note: normal turnaround time is ten (10) working days;
additional charges apply for rush orders.

Original



BECKTON ENVIRONMENTAL
LABORATORIES, INC.



REPORT OF ANALYSIS

ATTENTION: Mr. Héctor Ávila
COMPANY: AES Puerto Rico - Guayama

DATE: February 27, 2015

CONTRACT: AES - Guayama

LAB. SAMPLE ID: BEL-1500641
SAMPLE COLLECTED BY: Client (H. Ávila)
DATE RECEIVED: 02/19/15

SAMPLE DATE: 02/19/15
TIME: 6:50AM

DESCRIPTION: SW - 003
LAB. FILE ID: 1500641
MATRIX: Water

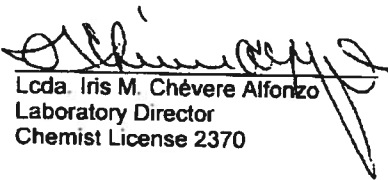
PARAMETER	EPA METHOD	SAMPLE TYPE	UNITS	BEL-1500641 RESULT	METHOD DETECTION LIMIT	ANALYST	DATE ANALYZED
TSS	SM 2540 D*	Grab	mg/L	10.0	4.00	WV	02/24/15
Aluminum	200.7(ICAP)	Grab	mg/L	0.912	0.005	BTR	02/24/15
Iron	200.7(ICAP)	Grab	mg/L	0.396	0.010	BTR	02/24/15
Lead	200.7(ICAP)	Grab	mg/L	0.007	0.001	BTR	02/24/15
Zinc	200.7(ICAP)	Grab	mg/L	0.009	0.001	BTR	02/24/15

TSS-Total Suspended Solids

*Standard Methods for the Examination of Water and Waste Water, 19th Edition, 1995.

Method Detection Limit (MDL)-The minimum concentration of a substance that can be measured and reported with 99% confidence that the value is above zero.

Certification and release of the data contained in the Report of Analysis has been authorized by the Laboratory Manager or the Manager's Designee. Sample results related only to the sample submitted.


Lcda. Iris M. Chévere Alfonzo
Laboratory Director
Chemist License 2370



Attachment: Chain of Custody Records (1)

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BECKTON ENVIRONMENTAL LABORATORIES

192 Villa Street • Ponce, P.R. 00730-4875

Tel. 787-841-7373 • Fax 787-841-7313

REVISION 2009

CHAIN OF CUSTODY RECORD

PROJECT NO.	COMPANY AES Guayama	SAMPLE H. Avila
SAMPLE LOCATION/CLIENT ID	SW-003	TIME 6:50 AM
SAMPLE DATE	2-19-15	CONTROL NO. 180804
		BEL. NO. 1500641

1. General Environmental:

Acidity ()	PC	VSS ()	PC
Ammonia as N ()		Alkalinity ()	
BOD-5 ()		Bicarbonate ()	
Chloride ()		Bromide ()	
COD ()		Chlorine, Res. ()	
Conductivity (µmhos/cm) ()		Color (ADMI) ()	
Dissolved Oxygen ()		Color (Pt-Co) ()	
Hardness ()		Cyanide ()	
Moisture % ()		Fluoride ()	
Nitrite ()		Iodide ()	
Oil & Grease ()		Nitrate ()	
Phenol ()		Nitrate + Nitrite ()	
Phosphorus, Total ()		pH, S.U. ()	
Sett Solids mg/L ()		Phosphate, Ortho ()	
Sulfate ()		Sett. Solids mL/L ()	
Sulfite ()		Solids, Total ()	
TDS ()		Sulfide ()	
Temperature, °C ()		Surfactant ()	
TOC ()		TSS ()	
Asbestos ()		TKN ()	
TVS ()		Turbidity ()	
Total Nitrogen ()		Carbonate ()	

2. Metals:

Aluminum (Al) ()	X	Cadmium (Cd) ()	
Chromium (Cr) ()	X	Copper (Cu) ()	
Iron (Fe) ()	X	Lead (Pb) ()	X
Manganese (Mn) ()	X	Mercury (Hg) ()	
Nickel (Ni) ()	X	Selenium (Se) ()	
Silver (Ag) ()	X	Tin (Sn) ()	
Zinc (Zn) ()	X	Arsenic (As) ()	
Barium (Ba) ()	X	Boron (B) ()	
Antimony (Sb) ()	X	Beryllium (Be) ()	
Bismuth (Bi) ()	X	Calcium (Ca) ()	
Chromium, VI (CrVI) ()	X	Cobalt (Co) ()	
Magnesium (Mg) ()	X	Molybdenum (Mo) ()	
Potassium (K) ()	X	Silicon (Si) ()	
Sodium (Na) ()	X	Strontium (Sr) ()	
Thallium (Tl) ()	X	Titanium (Ti) ()	
Vanadium (V) ()	X	Lithium (Li) ()	

3. RCRA/Hazardous wastes

Ignitability (Flash Pt.) ()		Corrosivity ()	
Reactivity (CN & S) ()		TCLP ()	
RCRA Metals ()		Organics-Pest/Herb ()	
Organics-BNA ()		Organics-VOA ()	
TOX ()			

4. Specific Organics

Volatiles ()		Phenols GC ()	
Pesticides/PCB's ()		Semi-Volatiles (BNA) ()	
Herbicides ()		PCB's Only ()	
BTEX ()		TPH 418.1 ()	
ITO & Dioxin ()		TTO ()	
		TPH 8015 ()	
		Lindane ()	

5. Microbiology

Fecal Coliform ()		Total Coliform ()	
--------------------	--	--------------------	--

Comments:

Sampling Witness:

Date/Time:

Relinquished by:

Date/Time: **19 Feb 15** **1:10 pm**

Received by:

Date/Time: **2-19-15** **1:10 pm**

Relinquished by:

Date/Time: **2-19-15** **3:05 pm**

Received by:

Date/Time: **2-19-15** **3:05 pm**

Relinquished by:

Date/Time:

Received by:

Date/Time:

Matrix

air ()	water ()	sludge ()
liquid ()	soil ()	solid ()
oil ()	mixed ()	other ()

Specify:

Preservative Codes = PC

- | | |
|---|----------------------------|
| 1. Cool <6°C | 6. Sodium Hydroxide (NaOH) |
| 2. Sulfuric Acid (H ₂ SO ₄) pH<2 | 7. Zinc Acetate |
| 3. Nitric Acid (HNO ₃) pH<2 | 8. Ascorbic Acid |
| 4. Hydrochloric acid (HCl) | 9. FAS |
| 5. Sodium Thiosulfate | 10. Other |

Sample type legend:

grab samples	x
composite samples	xx

Turnaround time: Sampling Equipment:

1 day ()	Automatic Sampler ()
2 days ()	Sample Pick Up ()
3 days ()	
5 days ()	

Note: normal turnaround time is ten (10) working days;
additional charges apply for rush orders.

Original